Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-21-54** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK D)E-PMT-09/W O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-21-54** **Date: 21-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	389	389	2.6	97.4	90-100
3	20 mm	7445	7834	52.2	47.8	30-70
4	10 mm	4896	12730	84.9	15.1	10-35
5	4.75 mm	1805	14535	96.9	3.1	0-5
6	Pan	465	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-21-54** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	2499	2688	53.8	46.2	25-55
4	4.75 mm	2011	4699	94.0	6.0	0-10
5	Pan	301	5000	100	0	–

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-21-54** **Date: 01/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.68 X 149.07 X 149.33	22314	8.194	406.9	18.2	18.4
2	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	149.79 X 151.44 X 151.51	22685	8.968	411.6	18.1	
3	Drain Bottom Slab Concrete	M20	25/07/2019	01/08/2019	150.49 X 150.13 X 149.56	22593	8.643	422.7	18.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-21-54 **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.

Agency : Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-08-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	149.82 X 150.54 X 149.21	22554	8.194	414.2	18.4	18.7
2	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	149.06 X 149.37 X 149.43	22265	8.968	419.2	18.8	
3	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	151.78 X 149.80 X 149.16	22737	8.643	429.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-21-54** **Date: 06/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	151.39 X 149.58 X 149.68	22645	8.194	418.0	18.5	18.4
2	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	150.91 X 150.82 X 149.45	22760	8.968	419.8	18.4	
3	Drain Side Wall Concrete	M20	30/07/2019	06/08/2019	149.48 X 150.30 X 150.03	22466	8.643	410.1	18.3	

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-21-54** **Date: 24-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	514	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	526	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	546	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-09-21-54**	**Date: 03-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.	
Agency	:	Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.	
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/79/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-07-19	
Sample Type /Size	:	Precast Cover Slab(100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	30/07/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.49	1.118	4478	80.8	18.0	16.8	21.0
2	Cover Slab-2	75.48	100.51	1.124	4474	82.2	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.50	1.116	4478	81.4	18.2	16.9	21.1

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-09-21-54 **Date: 03-08-19**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain and Covering Slabs at Suggappa Layout Road to Govt High School in Kempegowda Ward No-01.

Agency : Sri.S.Somashekar, No.15/44/1, Allalasandra, GKVK Post, Bangalore-65.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/79/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.49	3.116	31574	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.48	250.5	3.122	31561	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.51	250.51	3.118	31570	241.5	7.6	7.1	8.9

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